CLAIMS

- 1. A coating material for making high temperature resistant sealing elements, particularly on metallic surfaces, characterised in that the coating material comprises a film-forming binding agent, a solvent for it and a high temperature resistant solid lubricant.
- 2. A coating material according to claim 1, characterised in that the solid lubricant is chosen from graphite, boron nitride or mixtures of these materials.
- 3. A coating material according to claim 1 or 2, characterised in that the solid lubricant is in particle form, particularly being granular or lamellar, and the solid lubricant particles have a mean particle size of 0.5 to $15 \mu m$.
- 4. A coating material according to any of claims 1 to 3, characterised in that the binding agent is present in the coating material in a content of 50% or less by weight of the solids content.
- 5. A coating material according to claim 4, characterised in that the mass ratio of the solid lubricant and binding agent contents is within the 1:1 to 3:1 range.

6. A coating material according to any of claims 1 to 5, characterised in that the binding agent can be thermally decomposed above 700°C.

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A coating material according to any of claims 1 to 6, characterised in that the binding agent includes a lacquer which forms an elastic film during the drying of the coating material.

- 8. A coating material according to any of claims 1 to 7, characterised in that the solvent content of the coating material is 30% or more by weight.
- 9. A coating material according to any of claims 1 to 8, characterised in that the coating material contains a proportion of an elastomer.
- 10. A coating material according to claim 9, characterised in that the elastomer content of the coating material is 5 to 15% by weight relative to the total contents of binding agent and solid lubricant.
- 11. Use of a soating material according to any of claims 1 to 10 for making sealing elements on surfaces of metal sheets.
- 12. The use according to claim 11, characterised in that the metal sheets are subsequently spot welded to make the sealing elements.
- 13. The use according to claim 11 or 12, characterised in that the binding agent is thermally decomposed.
- 14. A single or multi-layer metal layer seal with one or more sealing elements, which are made on one of the surfaces of one of the metal layers, from a coating material according to any of claims 1 to 10.

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15. A metal layer seal according to claim 14, characterised in that the binding agent is thermally decomposed.

En 100 mg